



NEW, CONTINUATION, DIVISIONAL OR  
CONTINUATION-IN-PART APPLICATION  
UNDER 37 C.F.R. §1.53(b)

Attorney Docket No. 6550000013

Express Mail Label No. EH 757 438 393 US

Date July 13, 1998



A  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Hon. Commissioner of Patents and Trademarks  
Washington, D. C. 20231

Sir:

Transmitted herewith for filing under 37 C.F.R. §1.53(b) is a patent application for

**METHODS FOR PRODUCING LEAD-FREE *IN-SITU*  
COMPOSITE SOLDER ALLOYS**

identified by: [XX]First named inventor Thomas R. Bieler  
or [XX]Attorney Docket No. (see above)

**1. Type of Application**

- [X] This application is a new (non-continuing) application.
- [ ] This application is a [ ] continuation / [ ] divisional / [ ] continuation-in-part of prior application No. \_\_\_\_\_. Amend the specification by inserting before the first line the sentence:  
--This is a [continuation/division/continuation-in-part] of United States patent application No. \_\_\_\_, filed \_\_\_\_\_.--
- [ ] The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied, is considered part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

If for some reason applicant has not requested a sufficient extension of time in the parent application, and/or has not paid a sufficient fee for any necessary response in the parent application and/or for the extension of time necessary to prevent the abandonment of the parent application prior to the filing of this application, please consider this as a Request for an Extension for the required time period and/or authorization to charge our Deposit Account No. 08-0750 for any fee that may be due. THIS FORM IS BEING FILED IN TRIPPLICATE: one copy for this application; one copy for use in connection with the Deposit Account (if applicable); and one copy for the above-mentioned parent application (if any extension of time is necessary).

**2. Contents of Application**

- a. Specification of 16 pages;  
[ ] A microfiche computer program (Appendix);  
[ ] A nucleotide and/or amino acid sequence submission;
- [ ] Because the enclosed application is in a non-English language, a verified English translation [ ] is enclosed [ ] will be filed.
- [ ] Cancel original claims \_\_\_\_ of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing date purposes.)
- b. [X] Drawings on five (5) sheets showing Figures 1A-5;

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- c.  A signed Oath/Declaration [X] is enclosed / [ ] will be filed in accordance with 37 C.F.R. §1.53(f).

The enclosed Oath/Declaration is [X] newly executed / [ ] a copy from a prior application under 37 C.F.R. §1.63(d) / [ ] accompanied by a statement requesting the deletion of person(s) not inventors in the continuing application.

d. **Fees**

<b>FILING FEE</b>	Number	Number	Basic Fee
<b>CALCULATION</b>	Filed	Extra	Rate
Total Claims	19 - 20 = 0	x \$22.00	= \$0.00
Independent Claims	1 - 3 = 0	x \$82.00	= \$0.00
Multiple Dependent Claim(s) Used .....		\$270.00	=
<b>FILING FEE - NON-SMALL ENTITY</b> .....			\$790.00
<b>FILING FEE - SMALL ENTITY: Reduction by 1/2</b> .....			
[X] Verified Statement under 37 C.F.R. §1.27 is enclosed.			\$395.00
[ ] Verified Statement filed in prior application.			
Assignment Recordal Fee (\$40.00)			\$40.00
37 C.F.R. §1.17(k) Fee (non-English application)			
<b>TOTAL</b> .....			<b>\$435.00</b>

- A check is enclosed to cover the calculated fees. The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment, to Deposit Account No. 08-0750. A duplicate copy of this document is enclosed.
- The calculated fees will be paid within the time allotted for completion of the filing requirements.
- The calculated fees are to be charged to Deposit Account No. 08-0750. The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment, to said Deposit Account. A duplicate copy of this document is enclosed.

3. **Priority Information**

- Foreign Priority:** Priority based on \_\_\_\_\_ Application No. \_\_\_\_\_, filed \_\_\_\_\_, is claimed.
- A copy of the above referenced priority document [ ] is enclosed / [ ] will be filed in due course, pursuant to 35 U.S.C. §119(a)-(d).
- Provisional Application Priority:** Priority based on United States Provisional Application No. \_\_\_\_\_, filed \_\_\_\_\_, is claimed under 35 U.S.C. §119(e).

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**4. Other Submissions**

- [ ] A Preliminary Amendment is enclosed.
- [ ] An Information Disclosure Statement, \_\_\_\_\_ sheets of PTO Form 1449, and \_\_\_\_\_ patent(s)/publications/documents are enclosed.
- [X] A power of attorney
- [X] is submitted [X] with the new Oath/Declaration.
- [ ] is of record in the prior application and [ ] is in the original papers / [ ] a copy is enclosed.
- [X] An Assignment of the invention
- [X] is enclosed with a cover sheet pursuant to 37 C.F.R. §§3.11, 3.28 and 3.31.
- [ ] is of record in a prior application. The assignment is to \_\_\_\_\_, and is recorded at Reel \_\_\_\_\_, Frame(s) \_\_\_\_\_.
- [X] An Establishment of Assignee's Right To Prosecute Application Under 37 C.F.R. §3.73(b), and Power Of Attorney is enclosed.
- [X] An Express Mailing Certificate is enclosed.
- [ ] Other: \_\_\_\_\_

Attention is directed to the fact that the correspondence address for this application is:

Harness, Dickey & Pierce, P.L.C.  
P.O. Box 828  
Bloomfield Hills, Michigan 48303  
(248) 641-1600.

Respectfully,

  
DeAnn F. Smith  
Reg. No. 36,683

Date July 13, 1998  
Harness, Dickey & Pierce, P.L.C.  
P.O. Box 828  
Bloomfield Hills, Michigan 48303  
(248) 641-1600

DFS/gmp

Attorney Docket No. 6550-000013

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Group Art Unit: )  
Examiner: )  
Inventor(s): Thomas R. Bieler, et al. ) **ESTABLISHMENT OF**  
Serial No. ) **ASSIGNEE'S RIGHT TO**  
Filed: ) **PROSECUTE APPLICATION**  
For: Methods For Producing Lead-Free ) **UNDER 37 C.F.R. § 3.73(b),**  
          *In-Situ* Composite Solder Alloys ) **AND POWER OF ATTORNEY**

Hon. Commissioner Of Patents & Trademarks  
Washington, D. C. 20231

Sir:

Under 37 C.F.R. § 3.73(b), the undersigned hereby establishes the below-named Assignee's ownership in the above-identified Application:

Assignee: Board Of Trustees Operating Michigan State University  
East Lansing, Michigan 48824

The documentary evidence of a chain of title from the original owner to the Assignee is provided in the Assignment Document(s):

XX filed herewith.  
\_\_\_\_ previously filed,  
Reel No. \_\_\_\_\_, Frame No. \_\_\_\_\_.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the

United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Assignee furthermore hereby appoints DeAnn F. Smith, Reg. No. 36,683, and each other principal, attorney of counsel, associate and employee of Harness, Dickey & Pierce, P.L.C., who is a registered Patent Attorney, as attorney of record, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. I request the Patent and Trademark Office to direct all correspondence and telephone calls relative to this application to Harness, Dickey & Pierce, P.L.C., P. O. Box 828, Bloomfield Hills, Michigan 48303 (telephone 248-641-1600).

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

Mark A. Murray

Name: Mark A. Murray

Title: Associate VP for Business & Finance

Date: 30 June 78

Assignee: Board Of Trustees Operating Michigan State University

**HARNESS, DICKEY & PIERCE, P.L.C.**

ATTORNEYS AND COUNSELORS

P.O. BOX 828

BLOOMFIELD HILLS, MICHIGAN 48303

U.S.A.

JC526 U.S. PTO  
09/114665



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(248) 641-1600

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(248) 641-0270

Date: July 13, 1998

Hon. Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

Sir:

**EXPRESS MAILING CERTIFICATE**

Applicant: Thomas R. Bieler, K.N. Subramanian and Sunglak Choi

Serial No. (if any):

For: Methods For Producing Lead-Free *In-Situ* Composite Solder Alloys

Docket: 6550-000013

Attorney: DeAnn F. Smith

"Express Mail" Mailing Label Number ..... EH 757 438 393 US

Date of Deposit ..... July 13, 1998

I hereby certify and verify that the accompanying return postcard, check in the amount of \$435.00 (\$395.00 - filing fee; \$40.00 - assignment recordal fee), transmittal letter (in duplicate), 16-page patent application including at least one claim and abstract, executed Declaration and Power of Attorney, five (5) sheets of drawings showing Figures 1A-5, Assignment with attached coversheet (in duplicate), Verified Statement Claiming Small Entity Status, and Establishment Of Assignee's Right To Prosecute Application Under 37 C.F.R. §3.73(b), and Power of Attorney are being deposited with the United States Postal Service "Express Mail Post Office To Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is (are) addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Signature of Person Mailing Document(s)  
Jeanette R. Fithian